

ABSTRACT

Dog-clutch coupling device

The invention relates to a device for coupling two shafts (2, 3) intended to rotate in the continuation of one another about an axis (1). The device comprises a dog clutch (9) allowing the driving shaft (2) to drive the driven shaft (3), and declutching means allowing the dog clutch (9) to be uncoupled from a clutch-engaged position to a declutched position. The declutching means comprise at least one first channel (13) secured to a driving element (12) of the dog clutch (9), the first channel (13) having the shape of a portion of a torus about the axis (1), at least one second channel (16) secured to the driving shaft (2), the second channel (16) having a helical shape about the axis (1), and a rolling element (17) intended to roll between the first (13) and in the second channel (16).

Fig. 1